



Five of Hearts II User's Guide



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Chapter 1: Introduction

This section covers:

- Overview
- About this guide
- About the Five of Clubs II PC Card
- About Optional Accessories for the Five of Clubs II
- About Ositech's DPI technology
- Registering Your Modem

Overview

Congratulations on your purchase of the Five of Hearts II PC Card. The Five of Hearts II PC Card is a 56Kbps Data+Fax PC Card modem which contains Ositech's Digital Phone Interface (DPI) technology. The Five of Hearts II PC Card incorporates both V.90 and K56flex technologies.

The Five of Hearts II PC Card is GSM, analog cellular and ISDN ready.

At Ositech, we constantly strive to improve our products. You can take advantage of our latest technology and features by downloading the latest software from our website, www.ositech.com.

About this Guide

This guide provides installation and operating instructions for the Five of Hearts II PC Card. Use the following features to locate information in this guide:

- Internet addresses are highlighted in blue.
- Notes and cautions have an icon to the left of the text.

Conventions

Throughout this manual, the term *digital telephone system* refers to any digital or digital-hybrid telephone system, such as PBX. Windows NT refers to version 4.0. PCMCIA and PC Card are synonymous.

Font conventions used in this guide:

- Buttons, tabs, window names, and disk names are denoted with an initial capital and are italicized: click *Apply*.
- Keys you press on the keyboard are denoted with an initial capital: press Enter.
- File names, and commands you enter using the keyboard are denoted with a different font: type `atdt`.

- On screen messages are denoted with a different font in bold: the following message appears: **Connection Established!**

About the Five of Hearts II PC Card

The Five of Hearts II PC Card offers a number of features designed to integrate today's portable and laptop technology with users' needs:

- 56Kbps data, 14.4Kbps fax modem.
- Built-in Digital Phone Interface (DPI) technology—make modem connections through the handset cable of digital (PBX) phone systems.
- Windows-based configuration software and DPI software.
- Compatible with most major Operating Systems, including Windows 95 OSR2, Windows 98, Windows NT4.0, Windows Me and Windows 2000.
- Digital Line Protector protects the Five of Hearts II PC Card from damage if connected directly to a digital phone line.
- Power conservation modes which reduce power consumption when the PC Card is not in use.
- 2MB of Flash ROM.
- International Support

Data Mode

The Five of Hearts II PC Card supports the following industry and ITU-T standards:

- V.90 and K56flex simultaneously.
- 16550 COM port interface.
- DTE speeds up to 230,400bps.
- V.250 command set.
- ITU-T V.90, K56flex, ITU-T V.34 Annex 12 (33,600), ITU-T V.34, V.32bis, V.32, V.22bis, V.22, V.21 and Bell 212A and 103 operations.
- V.42 LAPM, MNP 2-4 error correction protocol.
- V.42bis and MNP 5 data compression.
- MNP 10EC (Error Correction) - Provides Enhanced Cellular Performance.

Fax Mode

The Five of Hearts II PC Card fax mode supports Class 1 and Class 2 AT fax commands. To use the fax mode, you must use a fax communications software package. The Five of Hearts II PC Card supports the following fax standards:

- Fax rates up to 14.4Kbps.
- ITU-T V.17, V.29, V.27ter and V.21 channel 2.

About Optional Accessories

The Five of Hearts II PC Card is designed to function with a variety of optional accessories that extend the card's base functionality. For an up-to-date list of accessories and the features provided by each, please contact Ositech or visit our website at www.ositech.com. Current accessories include:

- CellFlex Dual Mode Cellular - Allows connections in both Analog and Digital Coverage Areas
- GSM Cellular - Allows connection to popular GSM cellular phones for data/fax and SMS operation

About Ositech's DPI Technology

With Ositech's exclusive Digital Phone Interface technology, you can make modem connections through the handset cable of digital (PBX) phone systems found in offices worldwide. This means you will always have access to the information you need while on the road—send and receive data and faxes, and access the Internet—through office digital (PBX) phones. Never again will you waste time searching for an analog phone line.

Analog vs. Digital

PC Card modems are analog, that is, modems that send data over the telephone network as a series of tones. The phones in your home are likely analog too. Thus, you can connect your modem to your home telephone. Unlike the phones in your home, the phones in offices are usually digital (PBX) phones. Companies use PBX (Private Branch eXchange) phones because many people can share the incoming phone lines.

More than Just a Shield

Digital (PBX) phone systems use a higher current than analog phones. For this reason, you cannot use your modem with a digital phone. In fact, connecting your modem to a digital phone wall socket can damage your modem. To protect modems from the damaging effects of digital phone systems, many modems have some form of defense. Ositech's modems include Digital Line Protector—a smart circuit which detects and isolates digital currents, thereby preventing damage to the modem.

Even with such protection, standard analog modems still cannot connect through the digital phone systems found in offices worldwide. This is where Ositech's Digital Phone Interface (DPI) technology comes in handy. With Ositech's DPI, you can connect your modem through the handsets of digital phones to make modem connections.

Universal Connectivity

DPI connections are made through the handset of a digital (PBX) phone. To begin, you simply unplug the handset and plug the curly cable into the DPI coupler provided.

Ositech's DPI software detects the DPI connection and then guides you through any necessary steps to complete the connection.

About V.90 Dual Mode

At Ositech, our strong commitment to customer satisfaction demands we provide the most flexible 56K modem solution to our PC Card users. Ositech's complete line of 56K PC Card modems ship pre-configured to support both the ITU V.90 and Conexant K56Flex standards. This provides you with many important benefits:

- No flash upgrade required—Many 56K modems require a flash upgrade to configure the modem for V.90 connections. You do not have to flash upgrade your Ositech modem since it shipped with both V.90 and K56Flex pre-loaded.
- High speed 56K connections are more likely to occur—Your Ositech modem is designed to support both 56K standards; therefore, you have a much greater chance of taking advantage of high speed 56K connections. If your ISP has not made the transition to V.90, then your modem will make a K56Flex connection.
- Automatic V.90 or K56Flex negotiation—Your Ositech modem is able to automatically detect what standard a host modem is using and configure itself.
- No need to toggle between V.90 and K56Flex—Early 56K modems offered a V.90 upgrade, but once the modem was upgraded to V.90, K56Flex support was lost. Some manufacturers offer a piece of software to toggle between the 56K standards. Your Ositech modem does not require this software because it ships with both 56K standards pre-loaded and tested.

Registering Your Five of Hearts II PC Card

You can do one of the following to register your modem:

- Complete and return the registration card included in the box.
- Complete the electronic registration form on our website.

Chapter 2: Installing The Five of Hearts II

This section covers:

- Unpacking and inspecting the Five of Hearts II PC Card
 - Inserting the Five of Hearts II PC Card
 - Installing the Five of Hearts II PC Card software
 - Testing the Five of Hearts II PC Card software
-

Overview

You can install the Five of Hearts II PC Card in Windows 98, 2000, 95, Me (Millennium Edition) and NT 4.0. Ositech's Five of Hearts II PC Card is Plug and Play compatible.

Unpacking and Inspecting the Five of Hearts II PC Card

Carefully inspect the contents of the box (listed below), to verify that everything you should have is included, and that nothing has been damaged during shipment. Retain the packing material in case the unit needs to be returned for service.

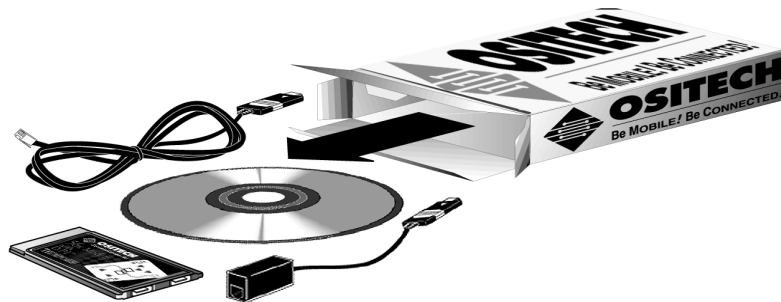


Figure 2-1: Unpacking the Five of Hearts II PC Card

Package Contents

The package contents include:

- Five of Hearts II PC Card
- QuickStart reference guide (not pictured)
- Direct-connect modem cable
- DPI cable
- Ositech CD-ROM

Inserting the Five of Hearts II PC Card

Before inserting your card, check the installation instructions for your OS below. You may need to insert the Ositech CD-ROM into your CD-ROM drive before inserting your Five of Hearts II PC Card.

To insert the Five of Hearts II PC Card into a PC Card slot of your computer:

- 1 Orient the Five of Hearts II PC Card as shown in the figure below.
- 2 Insert the Five of Hearts II PC Card into the slot until it is firmly seated.

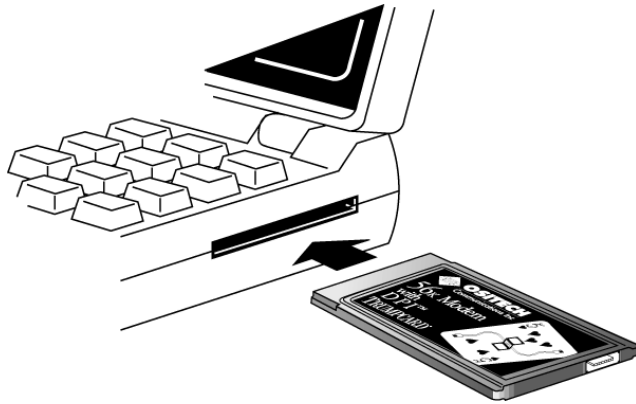


Figure 2-2: Inserting the Five of Hearts II PC Card



The Five of Hearts II PC Card is keyed to go in one way only. If you feel resistance before the Five of Hearts II PC Card is inserted fully, remove it, align it as shown and re-insert it.

Installing the Five of Hearts II PC Card Software

The following section includes software installation instructions which apply to:

- Windows 2000 - Page 11
- Windows Me - Page 11
- Windows 98 - Page 12
- Windows 95 - Page 14
- Windows NT 4.0 - Page 15

For all other operating systems, refer to the `Readme.txt` file on the *Five of Hearts II Software* disk.



Following the installation process you might have to restart your computer. Close all open applications before starting the software installation process.

Determine which operating system you are using and follow the appropriate procedure (detailed below).

Windows 2000

Before inserting your Five of Hearts II PC Card, please ensure the Ositech CD is in your CD-ROM drive.

To install the Five of Hearts II PC Card software in Windows 2000:

- 1 Insert the *Ositech CD-ROM* into the CD-ROM drive of your computer. The Ositech Menu Program should launch automatically.
- 2 Before inserting your Five of Hearts II PC Card, Run Windows 2000 Setup (**SETUP2K.EXE**) from the Ositech Menu Program. (If the menu program did not launch automatically, please run the **SETUP2K.EXE** program from the root of the Ositech CD). (see *Figure at right*).
- 3 After running *SETUP2K.EXE*, insert your Five of Hearts II PC Card into an open PCMCIA slot. Windows 2000 will detect new hardware.
- 4 Windows 2000 will identify the new hardware and prompt you to continue installation. A screen will open telling you that "The Digital Signature Is Not Found". This is normal, simply click Yes to complete the installation (see *Figure 2.3*).



Figure 2-3: Click Yes to move past the Digital Signature Not Found screen.

The software installation is complete. Your Five of Hearts II PC Card is ready for use.

Windows Me (Millennium Edition)

Before inserting your Five of Hearts II PC Card, please ensure the Ositech CD is in your CD-ROM drive.

To install the Five of Hearts II PC Card software in Windows Me (Millennium Edition):

- 1 Insert the *Ositech CD-ROM* into your CD-ROM drive. The Ositech Menu Program should launch automatically. You can close the menu program, as it is not required for installation from the CD-ROM. The menu (which can be launched later) contains manuals, registration information and links to the Ositech website. It will be of use to you later.
- 2 Insert your Five of Hearts II PC Card into a free PCMCIA card slot. Windows will detect new hardware.
- 3 Windows will identify the Five of Hearts II PC Card and will ask if you would like to *Automatically search a better driver* for this product. Select this option and click *Next* (see Figure 2-4)



Figure 2-4: Click *Next* to *Automatically search for the optimal drivers*.

- 4 Windows will scan the CD-ROM, locate the appropriate drivers and automatically install the device.

The software installation is complete. Your Five of Hearts II PC Card is ready for use.

Windows 98

Before inserting your Five of Hearts II PC Card, please ensure the Ositech CD is in your CD-ROM drive.

To install the Five of Hearts II PC Card software in Windows 98:

- 1 Insert the *Ositech CD-ROM* into your CD-ROM drive. The Ositech Menu Program should launch automatically. You can close the menu program, as it is not required for installation from the CD-ROM. The menu (which can be launched later) contains manuals, registration information and links to the Ositech website. It will be of use to you later.
- 2 Insert the Five of Hearts II into a free PCMCIA slot. Windows should detect new hardware.
- 3 Windows will identify your new hardware as a standard PCMCIA card modem and will want to search for appropriate software for the new hardware. Click *Next* to proceed.

- 4 Windows will ask if you want to Search for the best driver for your device, select this option and click *Next* (see *Figure 2-5*).



Figure 2-5: Search For best driver for your device and click Next

- 5 Select the CD-ROM drive as the location to search for drivers (see *Figure 2-6*)



Figure 2-6: Select CD-ROM drive as the location to search for valid drivers.

- 6 Windows will now scan the CD-ROM drive and locate the correct drivers for your Five of Hearts II PC Card. It will present the recommended driver (called Ositech 5oH-II 56K DPI Modem). Click *Next* to continue.

- 7 Windows will now show you the location and filename of the recommended driver. Click *Next* to confirm this selection (see *Figure 2-7*).



Figure 2-7: Click Next to continue.

- 8 Your Ositech Five of Hearts II 56K Modem is now installed, click *Finish* to complete your installation.

The software installation is complete. Your Five of Hearts II PC Card is ready for use.

Windows 95

Before inserting your Five of Hearts II PC Card, please ensure the Ositech CD is in your CD-ROM drive.

To install the Five of Hearts II PC Card software in Windows 95 (OSR2x version shown):

- 1 Insert the *Ositech CD-ROM* into your CD-ROM drive. The Ositech Menu Program should launch automatically. You can close the menu program, as it is not required for installation from the CD-ROM. The menu (which can be launched later) contains manuals, registration information and links to the Ositech website. It will be of use to you later.
- 2 Insert your Five of Hearts II PC Card into a free PCMCIA card slot.
- 3 Windows will detect new hardware and identify a Standard PCMCIA Card Modem. Click *Next* to begin the installation.
- 4 As long as the *Ositech CD* is inserted, Windows will scan the CD-ROM drive and identify the modem as an *Ositech 5oH-II 56K DPI Modem* (see *Figure 2-8, top of following page*). Click *Finish*.



Figure 2-8: Click Finish to proceed..

- 5 An Insert Disk window will open, prompting you to insert the Ositech CD. Ensure the CD is in your CR-ROM drive, and click OK.
- 6 Windows will prompt you for the path to your CD-ROM drive. Enter your drive letter and click OK (see Figure 2-9). Windows will copy files to complete the installation.

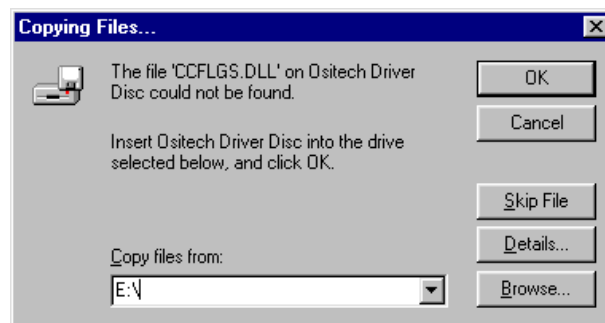


Figure 2-9: Enter the drive letter for your CD-ROM drive, and click OK.

- 7 Restart your computer to complete the software installation process.
- The software installation is complete. Your Five of Hearts II PC Card is ready for use.

Windows NT 4.0

Ensure the Five of Hearts II PC Card is inserted into a PC Card slot and restart your computer.

To install the Five of Hearts II PC Card software in Windows NT 4.0:

- 1 From the *Start>Settings* menu select *Control Panel*.
- 2 Double-click the *Modems* icon. The *Install New Modem* window opens.

- 3 Click *Next*. Windows NT auto-detects the Five of Hearts II PC Card as a modem. In the *Install New Modem* window, the modem detected is *Standard modem*.
- 4 Click *Change* (See Figure 2-10).

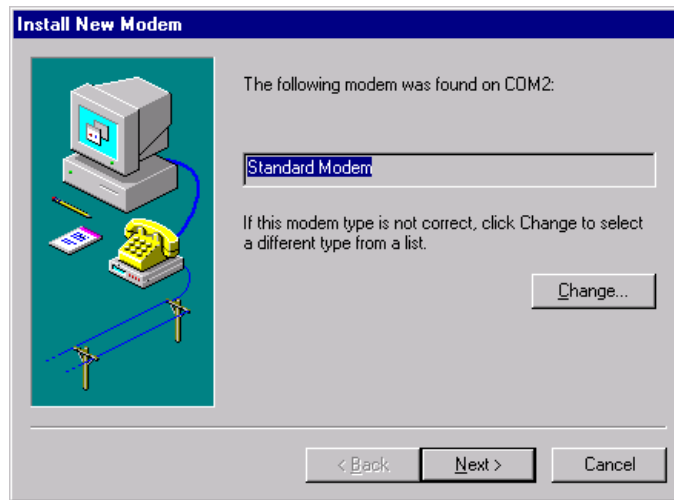


Figure 2-10: Click *Change*.

- 5 Windows will show you a list of modems and drivers. Click *Have disk* (See Figure 2-11).

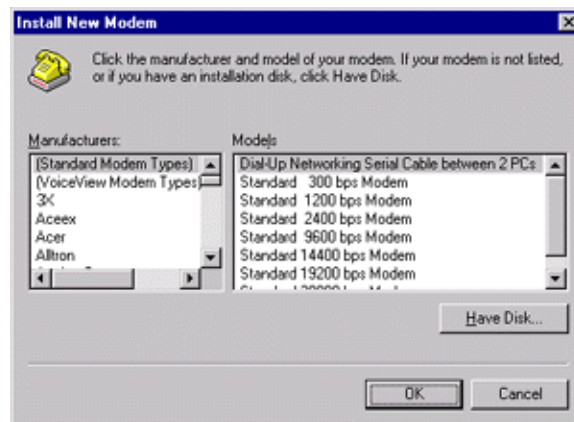


Figure 2-11: Click *Have Disk* to install the correct Drivers for your Five of Hearts II.

- 6 The *Install From Disk* window opens.

- 7 Ensure the *Ositech CD-ROM* is inserted into your CD-ROM drive and type the path to your CD-ROM drive (see *Figure 2-12*).

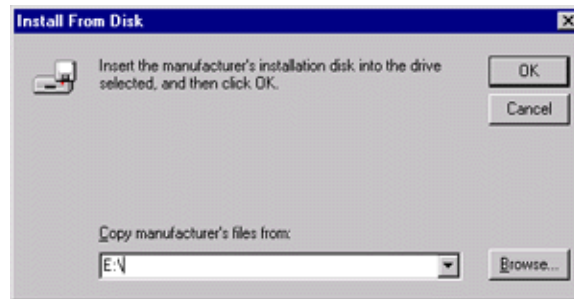


Figure 2-12: Enter the path to your CD-ROM drive.

- 8 The *Install New Modem* window opens, select *Ositech 5oH-II 56K DPI Modem* from the list (see *Figure 2-13*).

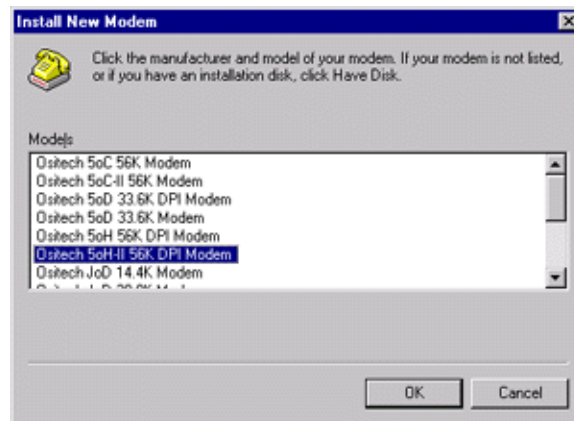


Figure 2-13: Select Ositech 5oH-II 56K DPI Modem from the list.

- 9 Click *OK*. In the *Install New Modem* window, the following message appears: **You have selected the following modem on COMn: Ositech 5oH-II 56K DPI Modem.**
- 10 Click *Next*.
- 11 Click *Finish*. The necessary software is installed. The *Modem Properties* window opens.
- 12 Click *Close*. The *Modem Properties* window closes.
- 13 Restart your computer.

The software installation is complete. Your Five of Hearts PC Card is ready for use.

Testing the Five of Hearts II PC Card Software



The following test procedures work for all the above-mentioned Operating Systems EXCEPT Windows NT 4.0.

To test the Five of Hearts II PC Card software:

- 1 From the *Start>Settings* menu, select *Control Panel*.
- 2 Double-click *Modems*. The *Modems Properties* window opens.
- 3 Click the *Diagnostics* tab. The *Diagnostics* properties page opens.
- 4 Click the COM Port assigned to the Five of Hearts II PC Card.
- 5 Click *More Info...* The diagnostics attempt to communicate with the modem. The *More Info...* window opens.

If a series of ATIx commands and responses appear, then you installed the modem driver correctly. If the series of ATIx commands does not appear, or no response appears beside each ATIx command, you should troubleshoot the modem software.

- 6 When you have finished running the diagnostics, click *OK* to close all open diagnostic windows.

Chapter 3: Making Modem Connections

This section covers:

- Overview
- Connecting through an analog line
- Using digital (PBX) phone handsets
- Using cellular phones

Overview

You can connect the Five of Hearts II PC Card to the telephone network through analog telephone lines or digital (PBX) phones. With optional accessories, more connection options are available, please contact Ositech for more details.

Using Analog Lines

The Five of Hearts II PC Card can send and receive data and faxes through analog telephone lines. To do so, you must connect the Five of Hearts II PC Card to an analog telephone jack and then use your communications software to make a modem connection, or your fax software to send and receive faxes.

Connecting to an Analog Telephone Jack

You can connect the Five of Hearts II PC Card directly to analog telephone jacks. To connect the Five of Hearts II PC Card to an analog telephone jack:

- 1 Plug the Direct Connect Cable into the Five of Hearts II PC Card.



The direct-connect modem cable is keyed to go in one way only. If you feel resistance before the connector is inserted fully, remove the connector, turn it over, and re-insert it.

- 2 Plug the RJ-11 connector into the telephone jack. If you wish to have both the telephone and the Five of Hearts II PC Card connected to a single telephone jack, a telephone Y-connector (not included) is required.

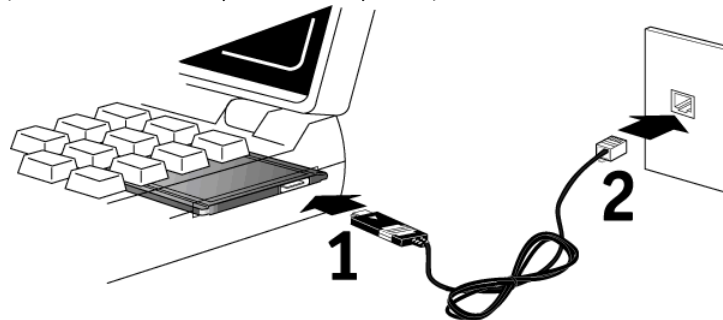


Figure 3-1: Connecting to an analog telephone jack

Sending and Receiving Data and Faxes

Refer to your communications and fax software packages for more information about sending and receiving data and faxes.

Ensure you use the direct-connect modem cable to make connections through analog telephone lines.

Using Digital (PBX) Phone Handsets

You can connect the Five of Hearts II PC Card to the telephone network via a digital (PBX) phone system. You make the connection using the coiled telephone cord which connects the handset to the base unit. The coiled telephone cord must detach from the handset to make this connection.



Ositech's DPI technology allows the Five of Hearts II PC Card to connect and operate via a telephone handset connection. DPI technology does not allow the Five of Hearts II PC Card to operate when directly connected to a digital wall jack.

If you connect your Five of Hearts II PC Card directly to a digital phone system without using the DPI coupler, the Five of Hearts II PC Card will not operate. Digital Line Protector protects the Five of Hearts II PC Card from damage caused by the higher currents of digital phones.

Connecting to a Digital (PBX) Phone Handset

To connect the Five of Hearts II PC Card to a digital (PBX) phone handset:

- 1 Plug the DPI Cable into the Five of Hearts II PC Card.
- 2 Unplug the handset cord from the digital telephone handset jack and plug the handset cord into the DPI coupler.
- 3 Return the handset to the cradle.

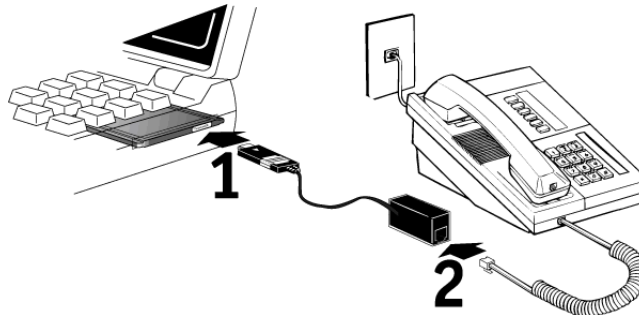


Figure 3-2: Connecting to a digital phone handset



The digital phone handset is not attached to the telephone base unit nor the Five of Hearts II PC Card.

Sending Data and Faxes Through Digital (PBX) Phone Handsets

DPI connections require more operator intervention than standard analog connections. With DPI connections, the handset must be operated manually for each call. This is due to the extensive variety of digital telephone systems.

The Five of Hearts II PC Card comes preconfigured to operate with many digital telephone systems. If you are unable to establish a DPI connection using the preset DPI settings, use the TRUMPCARD PILOT to configure the modem for the telephone system you are currently using (refer to Adjusting the DPI Settings for details).

This procedure works with most communications software packages. To use your Five of Hearts II PC Card for data or fax options with a digital connection:

- 1 Connect the Five of Hearts II to a digital phone handset.
Ositech provides a DPI cable which you can use to connect the Five of Hearts II PC Card to a digital phone handset.
- 2 Operate your communications software as you do normally.



When your communications software instructs the modem to dial, the DPI Assistant intervenes.

- 3 Follow the DPI Assistant dialog instructions to establish a DPI connection.
If the digital (PBX) telephone system prevents the DPI Assistant from accessing an outside line, the DPI Assistant prompts you with the number to dial.

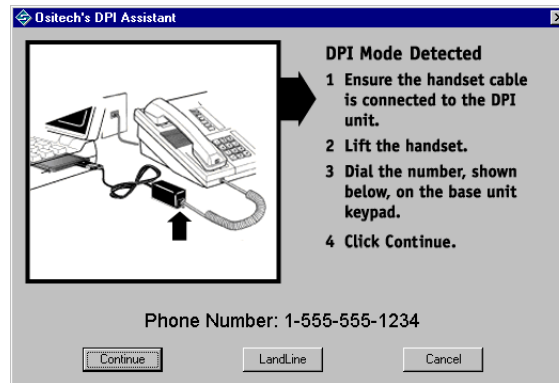


Figure 3-3: DPI Assistant with phone number

- 4 Lift the handset from the cradle.



Do not return the handset to the cradle until the modem connection is terminated. Returning the handset to the cradle terminate the modem connection.



Do not use handsfree mode. When the handset is removed from the cradle you should not hear what is occurring over the telephone line from the digital base unit.

- 5 If the DPI Assistant prompts you to do so, dial the phone number.
- 6 Click *Continue*.

Your communications software continues the modem connection as usual.



If after multiple attempts your Five of Hearts II PC Card does not connect to the remote location you will have to configure the DPI to work with the digital telephone system to which your Five of Hearts II PC Card is currently connected. To do so, refer to Adjusting the DPI Settings for details.

Chapter 4: Modem & Applications Wizards

Overview

This section deals with the installation and execution of Ositech's Modem and Applications Wizards. These Wizards will guide you through some basic modem tests to ensure your modem is functioning properly, as well as helping with the setup of some of the most popular dial-up applications for use with your Ositech modem.

Where To Find Information On The Wizards

There is a section on the Ositech CD-ROM which covers how to install and run the Modem and Applications Wizards. To read this document (in PDF format), simply insert the Ositech CD-ROM. From the Ositech menu, select the **View Electronic Manuals** button. From the sub-menu, select the Modem and Applications Wizards button (see figure, below). All the information you'll need can be found there.

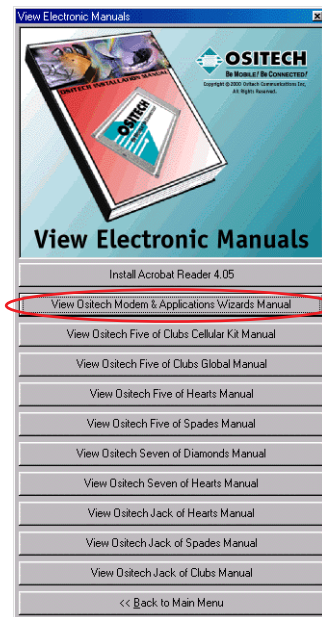


Figure 4-1: Ositech's Menu Program: Select the Modem and Applications Wizards button.

Chapter 5: Using TRUMPCARD PILOT

This section covers:

- Overview
 - Setting the GSM properties
 - Setting power management
 - Adjusting the DPI settings
 - Sending AT commands to the PC Card
 - Setting the Country profile
 - Using the Contacts property page
-

Overview

Ositech's TRUMPCARD PILOT is the fastest way to use the advanced features of your Five of Hearts II PC Card. The TRUMPCARD PILOT includes the following property pages:

- Information – Use this property page to check settings such as device description, port name and firmware version.
- DPI – Use this property page to adjust DPI settings for specific digital (PBX) phone systems. The DPI property page includes a database of DPI settings for popular digital (PBX) phone systems.
- Cellular – Use this property page to adjust cellular settings.
- GSM Control – Use this property page to select GSM drivers.
- Country – Use this property page to apply the appropriate country profile for various countries.
- Status – Use this property page to turn off the Five of Hearts II PC Card and conserve your laptop's battery. You can also check whether the Five of Hearts II PC Card is using Ositech's or Microsoft's serial driver.
- AT Session – Use this property page to send AT commands directly to the modem.
- Contacts – Use this property page to visit Ositech's website for news or software upgrades, and to email Ositech's Sales or Technical Support department.

You can also open the *PC Card* and *Modem* control panels from the TRUMPCARD PILOT.

Adjusting the DPI Settings

The *DPI* property page displays the DPI settings. You can adjust the DPI settings using either the *Option Settings* or the *Telephone System Settings*. Also, you can create, import and export custom location profiles.

The easiest way to set the correct DPI settings is to identify the manufacturer of the digital (PBX) phone you are using.

To adjust the DPI settings using the *Telephone System Settings*:

- 1 Click the Ositech logo located in the right corner of the system menu.
- 2 From the menu, select *Ositech 5oH 56K DPI Modem*. The TRUMPCARD PILOT opens.
- 3 Click the *DPI* tab. The *DPI* property page opens, displaying the current DPI settings.

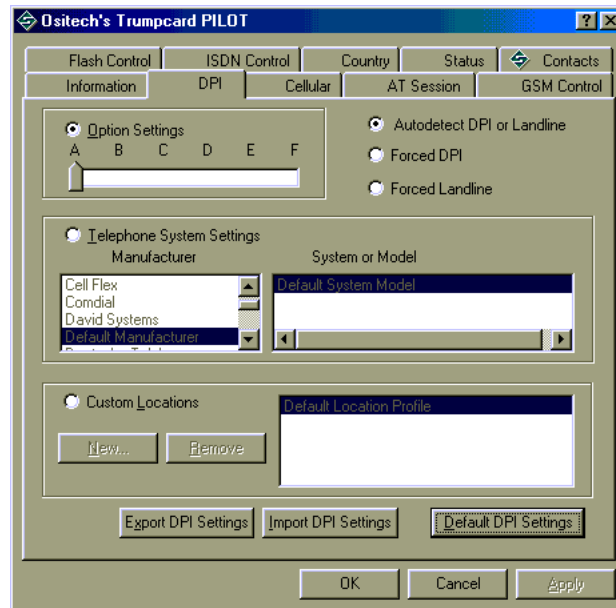


Figure 5-1: DPI property page

- 4 Identify the manufacturer of the digital (PBX) phone.
- 5 Select *Telephone System Settings*.
- 6 From the *Manufacturer* list, select the name of the manufacturer. If necessary, from the *System or Model* list, select the system or model.
- 7 Click *Apply*.

The appropriate DPI settings are applied.

- 8 Using your communications software, attempt a DPI modem connection.

If the connection works, the settings are appropriate for this digital (PBX) phone system.
If the connection fails, adjust the DPI settings using the *Option Settings*.

To adjust the DPI settings using the *Option Settings*:

- 1 Select *Option Settings*.
 - 2 Click and drag the *Option Settings* slider to an alternate setting.
In most cases, a DPI setting of "A" or "B" will work. Select whichever setting is not presently selected (If "A" is currently selected, drag the slider to "B").
 - 3 Click *Apply*. The DPI settings are applied.
 - 4 Using your communications software, attempt a DPI modem connection.
- If the connection works, the settings are appropriate for this digital (PBX) phone system.

If the connection fails:

- 1 Open the TRUMPCARD PILOT, and click the *DPI* tab.
- 2 Click and drag the *Option Settings* slider to a setting other than the initial setting and any subsequent setting you have selected.
- 3 Click *Apply*. The DPI settings are applied.
- 4 Using your communications software, attempt a DPI modem connection.

If the connection attempt fails, repeat steps 1 through 4 until all the option settings are exhausted. If these attempts fail, contact Ositech's Technical Support department for assistance.

Using Custom Location Profiles

Custom location profiles are a group of DPI settings associated with a location. If you regularly use a specific digital phone system at a given location (e.g., your client's office), you can create a custom location profile associated with the phone and location. This way, the next time you visit the location, you can select the custom location profile and then make modem connections.

You can import and export custom location profiles.

Creating Custom Location Profiles

To create a custom location profile:

- 1 Use the procedures outlined in the Adjusting the DPI Settings section to adjust the DPI settings for the digital phone system to which your modem is currently connected.
- 2 Open the TRUMPCARD PILOT *DPI* property page.
- 3 Click *New...* The *New DPI Location* window opens.

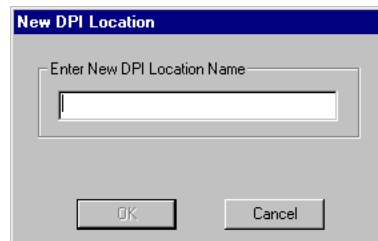


Figure 5-2: *New DPI Location* window

- 4 Enter a name for the new *Custom Location profile* (e.g., Company ABC's meeting room), and click *OK*.

The new custom location profile name appears in the *Custom Location Profiles* list.

Selecting a Custom Location Profile

To select a custom location profile:

- 1 Open the TRUMPCARD PILOT.
- 2 Click the *DPI* tab to display the *DPI* property page.
- 3 From the *Custom Location Profiles* list, select a profile.
- 4 Click *Apply*. The *DPI* settings associated with the custom location profile are applied.

Importing and Exporting Custom Locations

You can import and export custom location profiles.

To import a custom location profile:

- 1 Open the TRUMPCARD PILOT.
- 2 Click the *DPI* tab to display the *DPI* property page.
- 3 Click *Import DPI Settings*. The *Import DPI Profile Location* window opens.

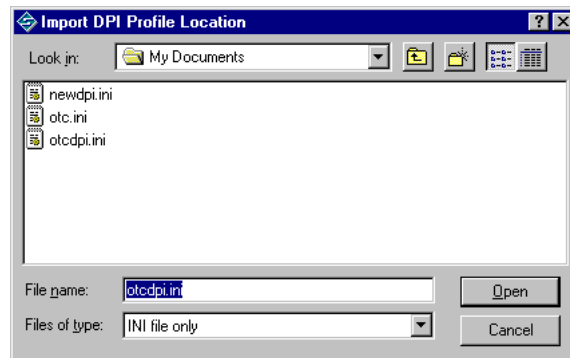


Figure 5-3: *Import DPI Profile Location* window

- 4 Select the file to import, and click *Open*. The custom location profiles are imported from the selected location. A backup copy of the original *otcdpi.ini* file is stored in the same location as the file being imported.

To export a custom location profile:

- 1 Open the TRUMPCARD PILOT.
- 2 Click the *DPI* tab to display the *DPI* property page.

- 3 Click *Export DPI Settings*. The *Export DPI Profile Location* window opens.

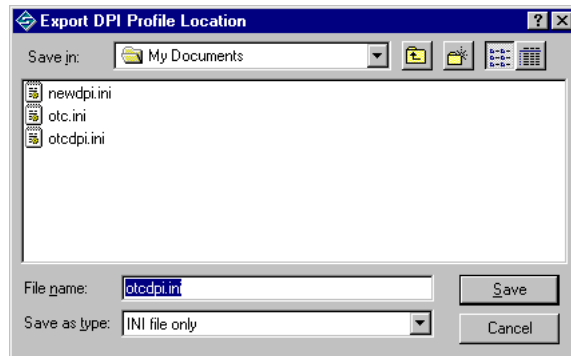


Figure 5-4: *Export DPI Profile Location* window

- 4 Select a location, and click *Save*. The custom location profiles are exported to the location you specified.

Removing a Custom Location Profile

To remove a custom location profile:

- 1 Open the TRUMPCARD PILOT.
- 2 Click the *DPI* tab to display the *DPI* property page.
- 3 From the *Custom Location Profiles* list, select a profile.
- 4 Click *Remove*. The DPI settings associated with the custom location profile are deleted.

Setting the Country Profile

In the *Country* property page, you can set the appropriate modem command set for various countries. To view the *Country* property page:

- 1 Click the Ositech logo located in the right corner of the system menu.
- 2 From the pop-up menu, select *Ositech 5oH 56K DPI Modem*. The TRUMPCARD PILOT opens.

- 3 Click the *Country* tab. The *Country* property page opens.

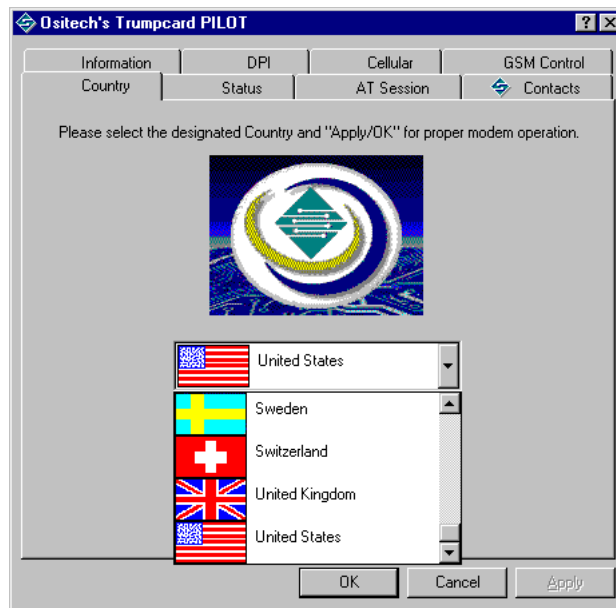


Figure 5-5: Country property page

- 4 From the list, select the country. Click *Apply*. The configuration process might take up to one minute.

Setting Power Management

In the *Status* property page, you can turn off the power to the Five of Hearts II PC Card and conserve your laptop's battery power.

To view the *Status* property page:

- 1 Click the Ositech logo located in the right corner of the system menu.
- 2 From the pop-up menu, select *Ositech 5oH 56K DPI Modem*. The TRUMPCARD PILOT opens.

- 3 Click the *Status* tab. The *Status* property page opens.

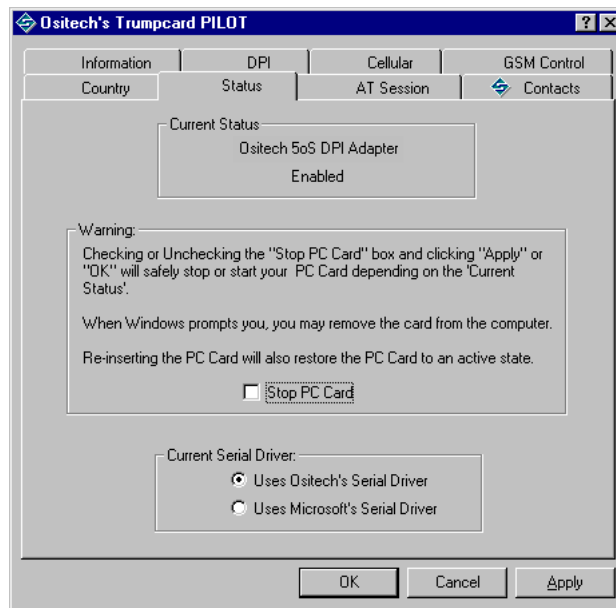


Figure 5-6: *Status* property page

To turn off the power to the Five of Hearts II PC Card:

- 1 Click the *Stop PC Card* checkbox. A check mark appears in the check box.
- 2 Click *Apply*. The power to the PC Card is turned off. When prompted, you can remove your Five of Hearts II PC Card.

To turn on the power to the Five of Hearts II PC Card:

- Eject and then re-insert the Five of Hearts II PC Card.

Sending AT Commands to the PC Card

In the *AT Session* property page, you can send AT commands directly to your Five of Hearts II PC Card. For instance, you can check the modem firmware version.

To view the *AT Session* property page:

- 1 Click the Ositech logo located in the right corner of the system menu.
- 2 From the pop-up menu, select *Ositech 5oH 56K DPI Modem*. The TRUMPCARD PILOT opens.

- 3 Click the *AT Session* tab. The *AT Session* property page opens.

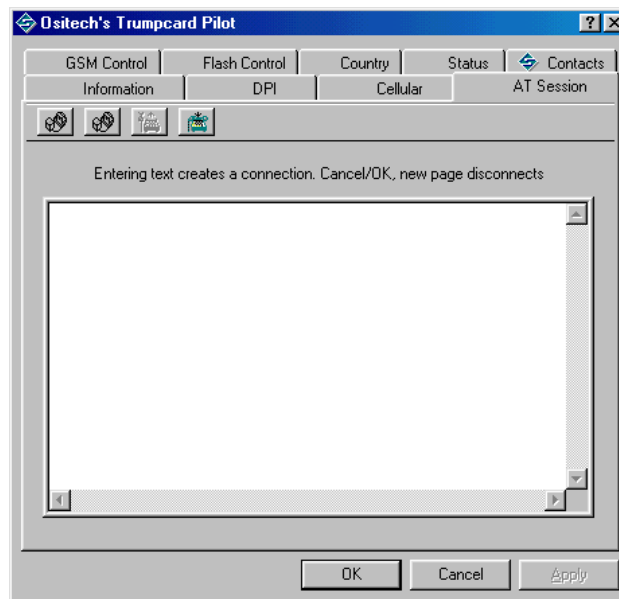


Figure 5-7: *AT Session* property page

To send AT commands directly to your Five of Hearts II PC Card:

- 1 Click in the window.
- 2 Type an AT command. For instance, to check the modem firmware version, type `at+3`. In some instances, you must follow a command with a carriage return (ASCII 013). In this example, the modem responds with the firmware version.

Using the Contacts Property Page

In the *Contacts* property page, you can send email to Ositech's Sales and Technical Support departments. Also, you automatically launch your default web browser to visit Ositech's website, and link directly to Ositech's Software/Driver Library to check for software updates.

To view the *Contacts* property page:

- 1 Click the Ositech logo located in the right corner of the system menu.
- 2 From the pop-up menu, select *Ositech 5oH 56K DPI Modem*. The TRUMPCARD PILOT opens.

- 3 Click the *Contacts* tab. The *Contacts* property page opens.

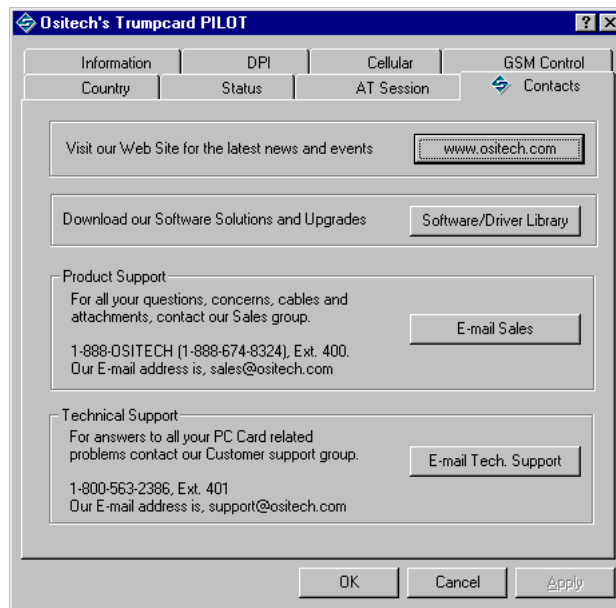


Figure 5-8: *Contacts* property page

- To visit Ositech's website, click *www.ositech.com*.
- To check for software or driver updates, click *Software/Driver Library*.
- To email Ositech's Sales department, click *Email Sales*.
- To email Ositech's Technical Support department, click *Email Tech Support*.

Chapter 6: Contacting Ositech

This section covers:

- Contact information
 - Technical support
 - Returning merchandise
-

Contact Information

At Ositech Communications Inc., we make every effort to provide you with products that fit your needs and work well. If you wish to communicate with Technical Support, Sales or any other department at Ositech, please contact us at any of the following phone numbers and addresses:

Toll Free Technical Support or Sales:	1-888-OSITECH (1-888-674-8324)
Technical Support (local):	(519) 836-8063 Ext. 401
Sales (local):	(519) 836-8063 Ext. 400
Fax:	(519) 836-6156
Website:	www.ositech.com
FTP:	ftp.ositech.com
Email Sales:	sales@ositech.com
Email Technical Support	support@ositech.com
Mail:	Ositech Communications Inc. 679 Southgate Drive Guelph, Ontario, Canada N1G 4S2

Technical Support

Before contacting Technical Support, please ensure you have the following information:

- Your address and telephone number.
- Product name, serial number and firmware version.
- Model and manufacturer of your computer.

- Name and version of the operating system you are using.
- Name and version of the communications or fax software you are using.
- Detailed description of your problem.

When you contact Technical Support, please have your computer, Ositech PC Card and disks available. Ensure your computer is plugged in or has ample battery power.

You can contact Technical Support by phone, Monday to Friday, 8:00 a.m. to 8:00 p.m. EST, or via the Internet 24 hours a day, 7 days a week:

Toll Free: 1-888-OSITECH (1-888-674-8324)

Local Phone Number: (519) 836-8063, Ext. 401

Fax: (519) 836-6156, Attn. Technical Support

Email: support@ositech.com

Technical Support calls are placed in a queue and are answered in the order in which they are received.

Returning Merchandise

To return merchandise, you must receive an RMA number and application from one of our Technical Support associates.

The following terms apply to RMA's:

- Return **ONLY** the goods specified in the RMA.
- Items that are not listed on the RMA and that are returned to Ositech will **ONLY** be returned to you upon request (by returned FREIGHT COLLECT).

Shipping Instructions

Once you have an RMA number, use the following guidelines when returning merchandise:

- Place the merchandise in bubble wrap and/or a padded shipping package.
- Write the RMA number prominently on the outside of the shipping container and on any shipping documents.
- Mark the package **FRAGILE**.
- Ship only the merchandise specified in the RMA.
- Use a traceable, insured method of shipment.

USA Customers

Ositech Communications Inc.
c/o M&M Forwarding
600 Main Street
P.O. Box 888
Tonawanda, NY 14150-0888
USA

Canadian & International Customers

Ositech Communications Inc.
430 Laird Rd., Unit No. 5-7
Guelph, Ontario
CANADA
N1G 3X7
CANADIAN GOODS RETURNING FOR REPAIR
H.C.9813.00.00.95

FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user be notified that any changes or modifications made to this device that are not expressly approved by Ositech Communications Inc. may void the user's authority to operate this equipment.

Operating Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

US Regulations Governing the Use of Modems

This equipment complies with Part 68 of the Federal Communications Commission (FCC) rules for the United States.

A label is located on the back of the modem containing both the FCC Registration Number and Ringer Equivalent Number (REN). You must upon request, provide this information to your telephone company: **REN 0.6B**.

Should you experience trouble with the telephone equipment, please contact:

M&M Forwarding (1-800-563-2386)

600 Main Street, Tonawanda, New York 14150-0888

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

If trouble is experienced with this equipment, Five of Hearts II, for repair or warranty information, please contact M&M Forwarding 1-800-563-2386.

If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

This equipment cannot be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Your telephone company may discontinue your service if your equipment causes harm to the telephone network. They will notify you in advance of disconnection, if possible. During notification, you will be informed of your right to file a complaint to the FCC.

Occasionally, your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of your equipment. If so, you will be given advance notice of the change to give you an opportunity to maintain uninterrupted service.

Canadian Electromagnetic Compatibility Advisory

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Conseil sur la compatibilité des Electromagnétiques, pour le Canada

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Industry Canada Warnings

Notice: The Industry Canada Label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing the equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of the service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Notice: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Number of all the devices does not exceed 5.

For information on the location of the authorized Canadian maintenance facility nearest you, contact Ositech Communications Inc.

J.A.T.E. Blue Book Compliance

Notice: The Five of Hearts II is compliant with JATE (Japan) PTT Telecom Requirements. The JATE approval number for the Five of Hearts II is A00-0983JP.

Technical Specifications

Data/Fax Modem with DPI™

Data Access Arrangement	Internal, International Variant with multi-country support
Telephone Interface	2 wire PSTN
56k ITU Standard (V.90) Support	V.90 Dual Mode (simultaneously supports V.90 and K56Flex)
Telephone Connection	Direct via supplied RJ11 cable
Digital Line Protector	Internal, intelligent auto-detecting circuit that will protect against accidental connection to a digital phone line for unlimited duration
DPI™ (Digital Phone Interface)	Internal interface enables data/fax communications through most digital (PBX) telephones
Memory	Flash memory for easy firmware updates. Non-volatile memory for up to four 36-digit telephone numbers and two user profiles
Compatibility	Data ITU-T: V.90 and K56Flex, V.34, V.32 bis, V.32, V.22 bis, V.22, V.23, V.21 and Bell 212A and 103 Fax ITU-T: V.17, V.29, V.27 tcr, and V.21 channel 2
Communication Speeds	Data: Up to 56,000 bits/sec. receive and 33,600 transmit Fax: Send and receive rates up to 14,400 bits/sec.
Parity Sensing	Odd, Even, Mark, Space, None
Protocols	MNP 2-5, MNP 10, MNP 10EC, V.42 LAPM, V.42bis
Call Tones Detected	Answer, dial, ring back, credit card
Diagnostics	Local analog loopback with self test Line signal strength and Line quality monitoring

Common

PCMCIA Compatibility	Type II Release 2.1
Typical Power Consumption	Dual Voltage Operation 3.3V/5V
	Sleep 30mA
	Active 160 mA
Operating Environment	Temperature 0° - 50°C, Humidity 10% - 95%, non-condensing

Warranty

OSITECH COMMUNICATIONS INC. warrants each new OSITECH TRUMPCARD sold by OSITECH to be free from defective material and workmanship. OSITECH agrees to remedy in accordance with terms specified below, any such defect which is disclosed under conditions of normal installation, use and service. To exercise this warranty the purchaser must deliver the unit intact for examination, with all transportation charges prepaid, to a servicing site designated by OSITECH.

This warranty does not apply if the Product has been modified or subjected to misuse, neglect, or accident; or if the Product has been repaired or altered by an unauthorized service depot so that its performance or reliability has been impaired; or if the Product has had the serial number altered, effaced or removed; or if it has been damaged by accessories, peripherals, and other attachments not approved by OSITECH.

The specific terms of the warranty are as follows:

- 1 The warranty period commences on the date the purchased unit is shipped to the purchaser by OSITECH, or an Authorized Reseller of OSITECH or by a transportation common carrier acting on OSITECH's behalf.
- 2 The warranty agreement only applies to the original purchaser. However when an Authorized Reseller of OSITECH resells the Products, pursuant to its rights hereunder, the said warranty shall apply to any persons or corporations which purchase such Products from the Reseller.
- 3 For a warranty period of five (5) years, OSITECH will be responsible for both material and labor required to effect all repairs under terms of the warranty agreement, providing the unit is returned to OSITECH as specified above.
- 4 OSITECH supports the equipment up to the time when the equipment is manufacturer discontinued. At such time, OSITECH will provide modules and accessories, upon request, necessary to maintain the equipment, for a period of two (2) years thereafter, subject to availability of material and components from OSITECH's suppliers.

This warranty is in lieu of all other warranties, expressed or implied and no representative or person is authorized to assume for OSITECH any other liability in connection with the

sale of the equipment. This warranty covers only Ositech's PC Cards, for all other problems or claims, please contact Ositech for further warranty information.

IN NO EVENT SHALL OSITECH BE LIABLE, WHETHER IN CONTRACT OR IN TORT OR ON ANY OTHER BASIS, FOR ANY DAMAGES SUSTAINED BY THE CUSTOMER OR ANY OTHER PERSON ARISING FROM OR RELATED TO LOSS OF USE, FAILURE OR INTERRUPTION IN OPERATION OF ANY PRODUCTS, OR DELAY IN MAINTENANCE OR FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SPECIAL DAMAGES OR LIABILITIES, OR FOR LOSS OF REVENUE, LOSS OF BUSINESS OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, LEASE, MAINTENANCE, USE, PERFORMANCE, FAILURE OR INTERRUPTION OF THE PRODUCTS.

Except as expressly set forth in this warranty, OSITECH makes no other warranties, expressed or implied, including any implied warranties of merchantability and fitness for a particular purpose. OSITECH expressly disclaims all warranties not stated in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this express limited warranty.